Developing with Drupal

Click, click, code, click....

Drupal

Drupal?

- Content Management System (**CMS**)
- Content Management **Framework**
- Extensibility: **Lego** principle
- **13.000+ modules** freely available
- Building **blocks** for everything
- procedural, **hook-based** architecture
- Runs **2% of** sites on the **internet**
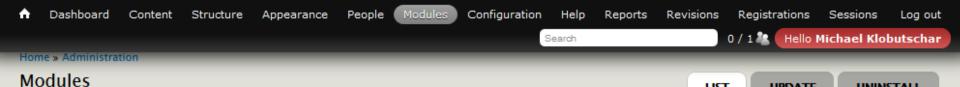
Drupal™

~~Developing with Drupal~~
Happy Clicking with Drupal

- The **site builder** configures the application

- Only write PHP code if you must and re-use all the things!

- From a developer perspective this may be a little frustrating as you mostly only need to develop the hard things customer come with.

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Some "**Backend**" Impressions

- Modules Page
- Content Listing
- Content Edit

Search   0 / 1 👥   Hello **Michael Klobutschar**

Modules

LIST   UPDATE   UNINSTALL

⚠ There are updates available for one or more of your modules or themes. To ensure the proper functioning of your site, you should update as soon as possible. See the available updates page for more information and to install your missing updates.
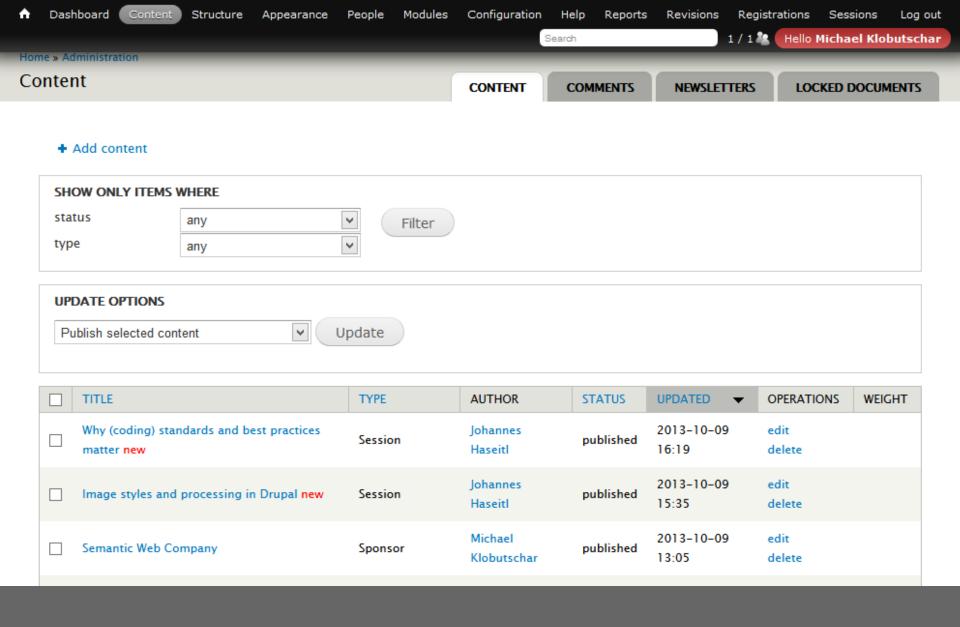
Download additional contributed modules ⊞ to extend Drupal's functionality.

Regularly review and install available updates to maintain a secure and current site. Always run the update script each time a module is updated.
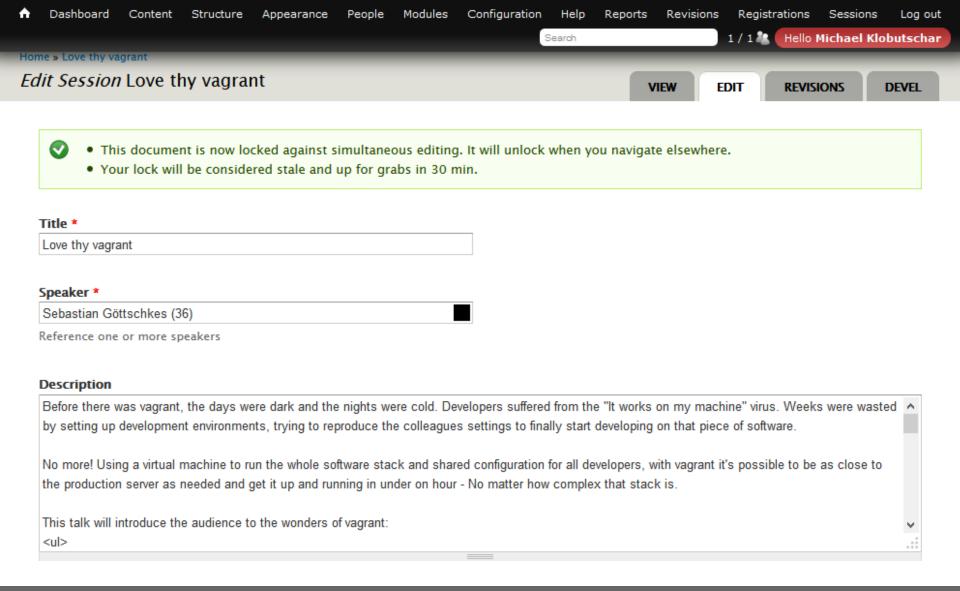
➕ Install new module

▼ CORE

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
☐	**Aggregator**	7.23	Aggregates syndicated content (RSS, RDF, and Atom feeds).	
☑	**Block**	7.23	Controls the visual building blocks a page is constructed with. Blocks are boxes of content rendered into an area, or region, of a web page. Required by: Dashboard (enabled)	❓ Help 🔑 Permissions ⚙ Configure
☐	**Blog**	7.23	Enables multi-user blogs.	
☐	**Book**	7.23	Allows users to create and organize related content in an outline.	

Modules Page

Content Listing

Search

1 / 1 👥 Hello **Michael Klobutschar**

Home » Love thy vagrant

Edit Session Love thy vagrant

VIEW | EDIT | REVISIONS | DEVEL

✅ • This document is now locked against simultaneous editing. It will unlock when you navigate elsewhere.
• Your lock will be considered stale and up for grabs in 30 min.

Title *

Love thy vagrant

Speaker *

Sebastian Göttschkes (36) ■

Reference one or more speakers

Description

Before there was vagrant, the days were dark and the nights were cold. Developers suffered from the "It works on my machine" virus. Weeks were wasted by setting up development environments, trying to reproduce the colleagues settings to finally start developing on that piece of software.

No more! Using a virtual machine to run the whole software stack and shared configuration for all developers, with vagrant it's possible to be as close to the production server as needed and get it up and running in under on hour - No matter how complex that stack is.

This talk will introduce the audience to the wonders of vagrant:

Content Edit

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Drupal philosophy: Klausi

- Rapid prototyping without writing a single line of code

- Build 80% of the site's features with existing modules

- Write 10% of features as reusable module for drupal.org + bug fixing

- Write 10% of features as custom internal code

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Drupal WTFs explained

- **procedural PHP?**
  - Well-tested and documented code.
  - Drupal 8 is going OOP.

- **500 database tables?**
  - Translatable, multi-value, revisionable field tables.

- **Configuration in the database?**
  - Exportable with Features module
  - YAML files in Drupal 8.

- **500 nested HTML template files?**
  - Use an intelligent base theme and generic styling

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The good stuff for developers

- Entity and Field API
- Form and Render API
- Views: query builder
- Queue and Batch API
- Drush: command line control
- Online documentation, books, screencasts

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The dark side

- Steep learning curve ("Drupalisms")
- Configuration takes time, too
- Hard to unit test (SimpleTest is slow)
- Hard to deploy (without Features module)

hook_menu() example

```php
function mymodule_menu() {
  $items['example/%node'] = array(
    'title' => 'Example Page',
    'page callback' => 'mymodule_page',
    'page arguments' => array(1),
    'access arguments' => array('access content'),
    'type' => MENU_SUGGESTED_ITEM,
  );
  $items['example/feed'] = array(
    'title' => 'Example RSS feed',
    'page callback' => 'example_feed',
    'access arguments' => array('access content'),
    'type' => MENU_CALLBACK,
  );
  return $items;
}
```

Page callback example

```php
function mymodule_page($node) {
  $data = mymodule_do_something($node);
  return array(
    'first_para' => array(
      '#type' => 'markup',
      '#markup' => '<p>A paragraph about some stuff...</p>',
    ),
    'second_para' => array(
      '#items' => $data->items,
      '#theme' => 'item_list',
    ),
  );
}
```

Debugging example

```php
function mymodule_page($node) {
  $data = mymodule_do_something($node);
  dpm($data);
}
```

- ... (*Array, 1 element*)
  - **0** (*Array, 2 elements*)
    - **0** (*String, 3 characters*) **one**
    - **1** (*String, 3 characters*) **two**

  Krumo version 0.2.1a | http://krumo.sourceforge.net

  Called from **/home/klausi/workspace/drupal-7/includes/form.inc**, line **1473**

Useful **Resources**

- drupal.org
- drupal.org/project/devel
- github.com/drush-ops/drush
- drupal.stackexchange.com

- groups.drupal.org (Community)
- drupal-austria.at (Local Community)
- drupical.com (Events)

Drupal

Drupal has the **largest open-source community** worldwide.

999.219 people in **228 countries** speaking **181 languages** power Drupal.
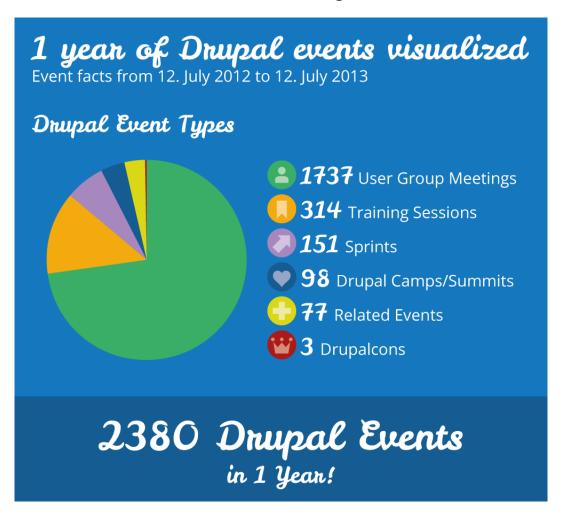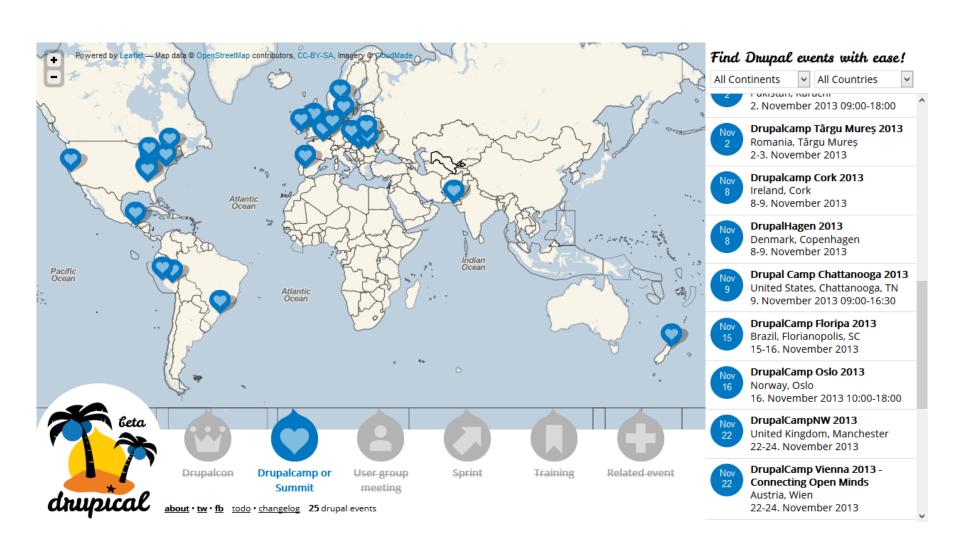
29.409 Code Commiters

There are **events**.

There are **many** events.

1 year of Drupal events visualized
Event facts from 12. July 2012 to 12. July 2013

Drupal Event Types

- **1737** User Group Meetings
- **314** Training Sessions
- **151** Sprints
- **98** Drupal Camps/Summits
- **77** Related Events
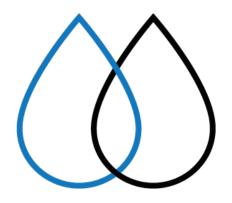- **3** Drupalcons

2380 Drupal Events in 1 Year!

http://ausgetrock.net/en/blog/nico/1-year-drupal-events-visualized

There are **DrupalCamps**.

DrupalCamp Vienna 2013
connecting open minds

- **22-24. November** at FH Technikum Wien
- **Non-profit** event, organized by local community
- Expecting over **300 attendees**
- Low **ticket price of € 25** (early-bird) incl. lunch
- You must **be there!**